

Claims

1. A locking element for holding together threaded parts such as screws and nuts against undesired loosening, comprising at least two annular lock washers lying on each other and having center holes, wherein the inner surfaces lying on each other have teeth and the outer faces are provided with teeth, characterized in that at least one center hole (14) has a rounding (6) or a groove (24) on the inner face that is provided with teeth.

2. The locking element, possibly according to claim 1, characterized in that the tooth edges (8) of the tooth flanks (7) are oriented off-radial.

3. The locking element according to claim 1 or 2, characterized in that the tooth edges (8) of the tooth flanks (7) are V-shaped.

4. The locking element according to claim 1 or 2, characterized in that the tooth edges (8) of the tooth flanks (7) are U-shaped.

5. The locking element according to claim 1 or 2, characterized in that the tooth edges (8) of the tooth flanks (7) are S-shaped.

6. The locking element, possibly according to claims 1 to 5, characterized in that the edges of the teeth (5) have a non-radial direction.

7. The locking element according to one of claims 1 to 6, characterized in that the edges of the teeth (5) have a curvature.

8. The locking element, possibly according to one of claims 1 to 7, characterized in that the lock washers (1, 2) are connected to each other by means of a sleeve (16, 21).

9. The locking element according to one of claims 1 to 8, characterized in that the sleeve (21) is disposed on inner faces of the center holes (14).

10. The locking element according to one of claims 1 to 9, characterized in that the sleeve (16) is disposed on outer faces of the lock washers (1, 2).

11. The locking element according to one of claims 1 to 10, characterized in that one sleeve is disposed on the inner faces of the center holes (14) and that a further sleeve is disposed on the outer faces of the lock washers.

12. The locking element according to one of claims 1 to 11, characterized in that the sleeve (16, 21) has a lip that laterally extends over or into an edge of the lock washers (1, 2).

13. The locking element according to one of claims 1 to 12, characterized in that the lip is annular.

14. The locking element according to one of claims 1 to 12, characterized in that the lip is formed by tabs (18).

15. The locking element according to one of claims 1 to 12, characterized in that the tabs are annular segments (17).

16. The locking element according to one of claims 1 to 12, characterized in that the sleeve is a slotted ring.

17. The locking element according to one of claims 1 to 16, characterized in that a transition between the sleeve (16, 21) and the lip has a rounding and/or a chamfer.

18. The locking element according to one of claims 1 to 15, characterized in that a transition between the sleeve and the lip is designed perpendicular.

19. The locking element according to one of claims 1 to 18, characterized in that the lock washers have a groove (22, 23) for receiving the lip.